

3/2/66

ENGINEERING OPEN HOUSE

GENERAL INFORMATION

Engineering Open House is a student run activity whose main purpose is to portray to the high school student and the general public the ideals of engineering and engineering education.

Each year the open house committee invites the high school students from throughout the state to come and visit our campus.

In order to accomplish our purpose we hold an exhibits contest in which the undergraduate students prepare exhibits in their various departments. We also set up tours through our various research labs in an effort to acquaint the public with engineering research on our campus.

This year we have over 1700 engineers working on over 120 different exhibits and helping to conduct tours through 7 of our research labs.

This year we also have invited Mr. Robert Friedman a noted National Aeronautics and Space Administration research scientist, from Lewis Research Center, Cleveland, Ohio, to speak on "A Review of the Gemini Program", and to show a full color movie on the Gemini 6-7 Rendezvous. He will talk at 4:00 P.M. in the University of Illinois Auditorium on Saturday, March 12. There is no admission charge and the talk is open to the general public.

We expect at least 20,000 visitors on the two-day weekend of the Open House. We would like to urge the people in the immediate area to come out and see Open House and to take advantage of all the educational opportunities offered at Open House.

Also on this same weekend is the Persian Rifle Drill meet and Aviation Open House. Buses will be set up to run from the engineering campus to the University of Illinois Willard Airport, where the Aviation Open House will be held.

We feel that engineering is one of the most misunderstood professions in that people lack the contact that they receive with other professional men such as doctors and lawyers. We also feel that many of the high school students who are interested in studying math and science or engineering do not know what engineering is. Engineering Open House is an attempt to show them what engineering is. More than 75% of freshmen that enter the college of engineering change curriculum before they graduate.

Many departments such as physics take actual lab experiments out of the labs and demonstrate these to the high school students. These are experiments that undergraduates actually do in class. Physics also holds mock physics lectures and shows movies on elementary physics principles to acquaint high school students with their field. There are also special tours of the bubble chamber and betatron, that show students more about the department.

All departments will have advisors available to visitors for information. Also, most of all departments are showing films about their particular department, or activities of their branch of science.

Our Engineering Open House Central Committee is set up to serve the visitors and to make their visit an enjoyable one. We provide parking for over 50 buses and try to make arrangements for auto parking, but this will continue to be a problem because of the lack of parking spaces on campus. We also set up a hospitality lounge in the Illini Union to serve free coffee and doughnuts to bus drivers and teachers visiting our campus. If anyone desires to stay over night, we have a special housing committee to help make the necessary arrangements. In general, we are trying to make open house as good as we can, by making it as informative and as interesting as possible.

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Mickey Mindock
Publicity Chairman
Engineering Open House
155 EE Building
Urbana, Ill.

Partial Exhibits List For EOH

Electrical Engineering

Magnetic Cannon, Illi Hunt, Plato, WPGU Radio Station, TV Picture Tube, Radio Astronomy, Radio Controlled Ball, Gemini Spacecraft Model, Integrated Circuits, Strenght Tester, Color Organ, Voice on a Light Beam, Laser, Water Drop Generator, Magnetic Skillet, Lie Detector, Saturable Reactors, Tin Can Motor, Sonar, Digital Clock, G-20 Computer, Eta Kappa Nu film, Eta Kappa Nu information, Light Controlled Whale

Agricultural Engineering

Soil Ben, Paper Mulch Layer, Tractor Dyranometer Tests, Remote Controlled Mower, Soil Pulverizer, Tractor Tire Testing, Automatic Materials Handling System, Senior Special Problem Exhibits

Aero Engineering

Ram Jet, Subsonic Wind Tunnel, Shock Tube, Hydrogen Rocket, Turbulent Combustion, Supersonic Wind Tunnel, Plasma Jet, Pratt & Whitney Aerospace Exhibit, NASA Space Exhibit, NASA Space Movies, Aerostructures: Testing and Analysis, Analog Computer, Orbits and Trajectories, Ground Effect Machine, Aerodynamic Phenomena, Boeing Space Exhibits, Avco Space Exhibits

Metallurgy and Mining

Dependence of Electrical Conductivity on Temperature, Phase Transformations, Fiber Reinforced Metals, Internal Friction, Metallography (National Award Winning Exhibit), The New Quarters, Oilless Bearings: Power Metallurgy, Exploring Metallurgy, Rolling of Metals, Crystallography of Metals

Civil Engineering

Earth Dam Failure, Density Measurement by Gamma Ray Transmission, Models of Reinforced Concrete Structures, Vibration Effects on a Structural Model, Geometric Effect on Structural Stiffness, Traffic Planning Display, Developing Better Highway Materials, Water Pollution and Purification, Water Resources Display, Construction Planning with a Computer, Inspection of Steel Structure with Ultrasonic Detector, American Society of CE Display, Display of Surveying Equipment.

Ceramic Engineering

Research Methods, Ceramic Coatings, Physical Measurements, Refractories Glass Technology, Nuclear Ceramics, Properties of Slips

Engineering Open House Exhibits List Cont.

Chemical Engineering

Batch Distillation, Chem Pop, Stirred Tank Reactor and Analog, Chem Magic Show, Plant Display, Radio Chem, Electrochem, Fluidized Bed, Instrumentation, High Pressure Lab, Senior Individual Research

Talbot Lab

Fluid Mechanics and Hydraulics, Concrete Cylinder Testing, Flow and Fracture of Metals, Civil Engineering Soil Sampling

Department of Computer Science Illiac II

Foundry Civil Engineering Surveying, Casting Aluminum Souvenirs

Aeronautical Engineering Lab B

Engineering Research Laboratory Satellite Project, IBM 7094

Mechanical Engineering Laboratory Air Conditioning and Heating Equipment
Steam Turbines

Navy ROTC

Oceanographic Display, Movie (if possible) Oceanography, Static Display at Willard Airport, Public Information

Army Corps of Engineers, Signal Corps

Water Purification, Mobile Radio Display

Aviation Open House at Willard Airport

Power Plant Lab, Airframe Lab, Propeller Lab, Electrical Accessories Lab, Electronics Lab, Flight Training Aircraft, U.S. Navy Exhibit, Experimental Aircraft Association

Engineering Open House
University of Illinois
155 Electrical Engineering Building
Urbana, Illinois

Mickey Mindock
332-1939
333-1568

ENGINEERING OPEN HOUSE

Special Guided Tours

Louis Frederick, Lab and General Tours Chairman has announced 7
special guided tours during open house.

The tours will be conducted through the following labs:

1. Aero Lab B (includes Mercury Satellite and film on walk in space)
2. Hydraulics, Test Track and Sanitary Labs in C.E.
3. Crane Bay in Talbot Lab
4. Electrical Engineering Biological Computer Lab
5. Surveying Lab in Civil Engineering
6. Mass Spectroscopy in Physics
7. Bubble Chamber in Physics

These tours will be restricted to those that make prior arrangements with

Frederick by writing Tours Chairman, Engineering Open House. They will be limited to groups of 10 and run whenever reserved by the group.

ENGINEERING OPEN HOUSE CENTRAL COMMITTEE
PUBLICITY COMMITTEE TENTATIVE SCHEDULE

Feb. 21-27

1. Engineers Week and Kick Off Week
2. TV and Radio sketches and outlines (Illiac II music)
3. Posters
- 4.
- 5.

Feb. 28-March 6

1. General Release to selected radios and TV
2. Combined Release to selected newspapers
3. Preparations Exhibits for EOH
4. First release on speaker
5. Posters on speaker out
6. 2nd set of EOH posters out
7. Invite newspapers to Central Committee meeting
8. Get general pictures taken
- 9.
- 10.

Mon., March 7

1. Sun up show
2. Committee pictures release
3. General organizational release
4. Information given to University information services
- 5.
- 6.

Tues., March 8

1. WCHU
2. Labs and lab tours releases
3. Gemini 6-7 rendez-vous movie release
4. Railway exhibit
- 5.
- 6.
- 7.

Wed., March 9

1. Lt. Gov.
2. Deans
3. PE meeting if held
4. Map
5. Radio and TV releases
- 6.
- 7.
- 8.

Thurs., March 9

1. Traffic (Bicycle)
2. Invite photographers for set up
3. Women soc. of Eng.
4. Hat Sales
5. Model Gemini Craft
6. Ford car of S of Auto Eng.
7. Summary of each dept.
8. Speaker

ENGINEERING OP EN HOUSE CENTRAL COMMITTEE

PUBLICITY COMMITTEE

Attention all department chairmen:

The publicity committee would like to have:

- 1) A general summary of your department academically (about 1 paragraph)
- 2) A summary of what your department is doing for open house (1-2 paragraphs)
- 3) Names of what you think will be your 2 best exhibits and whoes projects they are. (This has nothing to do with judging)
- 4) Aporexiante number of people in your department involved in open house

Attention all society presidents:

The publicity committee for this years open house needs a general statement about your society, what purpose it serves, and some of its activities. Also wanted for publicity is a summary of what your society is planning to do for EOH.

Attention all Central Committee members:

The publicity committee would like a brief summary of what your committee has done and plans to do for open house. This should include as many facts and numbers as possible.

This year with the publicity for open house we are going to stress engineering education. This will not only include information on various exhibits and displays but also on various curriculum and engineering activities. The above information will be the basis for the majority of the news releases. It is essential that this information be sent to me in 155~~ME~~ on or before Wed, Feb. 23. The sooner that the information is sent in the better so that we may begin writing news releases and stories for the various newspapers and radio stations. Thank you.

Mickey Mindock
Publicity Chairman